

Notice of Allowability

Application No.

09/637,698

Examiner

Beemnet W. Dada

Applicant(s)

KIM ET AL.

Art Unit

2135

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to amendment filed on May 23, 2007.
2. ☒ The allowed claim(s) is/are 14, 15, 17, 18, 24, 25.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☒ All b) ☐ Some* c) ☐ None of the:
 1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|--|---|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____ |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____ | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____ |

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Samuel W. Ntiros, Reg No. 39,318 on July 27, 2007.

The application has been amended as follows:

In the claims:

14. (Currently Amended) A method of generating multiple scrambling codes at a base station in order to communicate with a plurality of mobile stations in a WCDMA communication system, comprising:

generating a primary scrambling code by setting an initial value of a scrambling code to a binary value of "n" when a n-th one of ~~the~~ a plurality of primary scrambling codes is to be generated; ~~and~~

generating a n-th secondary scrambling code set corresponding to the n-th primary scrambling code by shifting an initial value of the n-th primary scrambling code; and

wherein setting the initial value comprises:

(a) setting a plurality of temporal primary scrambling codes, ~~the~~ number of the temporal primary scrambling codes being more than ~~the~~ number of the primary scrambling codes;

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- (b) setting the initial value, adapted to generate a n-th one of the temporal primary scrambling codes, with a value of "n";
- (c) calculating respective initial values, adapted to generate the a secondary scrambling codes in ~~the~~ a first one of the secondary scrambling code set, based on the value of "n";
- (d) detecting each secondary scrambling code in a secondary scrambling code set that have the same initial value as one of the temporal primary scrambling codes, based on the set and calculated initial values;
- (e) discarding the j-th temporal primary scrambling code or a i-th one of the temporal primary scrambling codes when the initial value of an i-th one of the secondary scrambling codes corresponds to that of a j-th one of the temporal primary scrambling codes;
- (f) repeatedly executing steps (b) through (e) up to an M-th one of the secondary scrambling code sets; and
- (g) selecting as the primary scrambling codes N codes from ~~the~~ a remaining temporal primary scrambling codes after executing step (d) for the M-th secondary scrambling code set, and when a j-th one of ~~the~~ a finally left temporal primary scrambling codes is selected as an n-th one of the primary scrambling codes, mapping the values of "n" and "j", thereby setting the value of "j" as an initial value adapted to generate the n-th primary scrambling code; storing the primary scrambling code and the secondary scrambling code corresponding to the primary scrambling code.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Beemnet W. Dada whose telephone number is (571) 272-3847. The examiner can normally be reached on Monday - Friday (9:00 am - 5:30 pm).

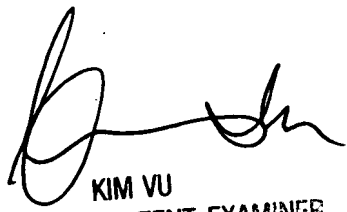
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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kim Y. Vu can be reached on (571) 272-3859. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Beemnet W Dada

July 27, 2007



KIM VU
SUPERVISORY PATENT EXAMINER
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